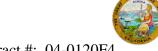
## DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

# WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-009933

Address: 333 Burma Road **Date Inspected:** 30-Oct-2009

City: Oakland, CA 94607

**OSM Arrival Time:** 645 **Project Name:** SAS Superstructure **OSM Departure Time:** 1845 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

**CWI Name:** Chen Xi **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No **Delayed / Cancelled:** Yes N/A No

34-0006 **Bridge No: Component:** OBG

## **Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector, D.Sukanthan was present during the time noted above for observations relative to the work being performed.

#### OBG # BAY 1 (CROSS BEAM # 15)

This QA inspector performed Magnetic Particle Test of approximately 15% of the area previously tested and accepted by ZPMC Quality Control Personnel. This QA Inspector generated an Magnetic Particle Test report for this date. The member is identified as Cross beam Floor beam. Inspection Notification number- 004510 / 004512. The weld designations reviewed are as follows:

(FB204-046-022,023,016,017)

(FB204-046-029,030,028,033,034,035,062)

(FB204-046-038,039,037,043,044,045)

(FB204-045-022,023,016,017,056)

(FB204-045-029,030,035,036,034,028,062)

(FB204-045-044,045,039,038,067)

(FB204-047-023,024,025,016,017,056)

(FB204-047-044,045,043,037,038,039,067)

(FB204-047-010,011,012,003,004,006,052)

(FB204-047-029,030,035,036,034,028,062)

(FB204-048-013,014,015,019,020,021,055)

# WELDING INSPECTION REPORT

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(FB204-048-038,039,044,045,068)

(FB205-048-010,011,012,003,004,006,028)

(FB205-047-001,002,005,007,008,009,027)

(FB205-045-010,011,003,004,028)

(FB205-045-014,015,013,019,020,021,033)

(FB204-045-005,009,001,002,007,008,051)

(FB204-046-006,012,003,010,011,052)

(FB204-048-006,012,003,004,010,011,052)

(FB205-047-016,022,017,018,023,024,034)

(FB205-048-014,015,020,021,033)

(FB204-048-030,029,036,035)

(FB205-046-020,021,014,015)

(FB205-046-005,006,001,002,007,008,027)

This QA Inspector randomly observed the following work in progress:

OBG # BAY 2

Flux Cored Arc Welding Process:

Welding of weld joint -022,023 located on PCMK FB3039-001. Welder is identified as 062438. ZPMC QC is identified as Zhan hai feng. The welding variables recorded by QC appeared to comply with the WPS-B-T-2132-3.

Welding of weld joint -084,085 located on PCMK FB3039-001. Welder is identified as 045209. ZPMC QC is identified as Zhan hai feng. The welding variables recorded by QC appeared to comply with the WPS-B-T-2132-3.

Welding of weld joint -058,059 located on PCMK FB3039-001. Welder is identified as 045203. ZPMC QC is identified as Zhan hai feng. The welding variables recorded by QC appeared to comply with the WPS-B-T-2232-TC-U4b-F.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

#### **Summary of Conversations:**

No Relevant Conversation

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-00422372, who represents the Office of Structural Materials for your project.

# WELDING INSPECTION REPORT

(Continued Page 3 of 3)

**Inspected By:** Sukanthan, Dhanasingh Quality Assurance Inspector **Reviewed By:** Hall,Steven QA Reviewer